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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/656,523	09/07/2000	Thomas A. Baginski	14237-752	9009
25213 75	590 10/18/2002			
HELLER EHRMAN WHITE & MCAULIFFE LLP			EXAMINER	
275 MIDDLEF MENLO PARK	TIELD ROAD K, CA 94025-3506		CHAMBERS, TROY	
			ART UNIT	PAPER NUMBER
			3641	

DATE MAILED: 10/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

7		Application No.	Applicant(s)			
		09/656,523	BAGINSKI ET AL.			
·	Office Action Summary	Examiner	Art Unit			
<u>.</u>		Troy Chambers	3641			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1) 🗌	Responsive to communication(s) filed on	·				
2a)⊠	This action is FINAL. 2b) ☐ Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
_	on of Claims					
,	Claim(s) <u>1-7</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
<u> </u>	Claim(s) is/are allowed.					
<u>,</u>	Claim(s) <u>1-6</u> is/are rejected.					
	Claim(s) 7 is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers						
9) 🗌 .	The specification is objected to by the Examine	г.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority u	ınder 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents	s have been received in Applicat	ion No			
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
J.S. Patent and T		<u> </u>	Dot of Donor No. 12			

Art Unit: 3641

#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election without traverse of Group I (claims 1-7) in Paper No. 12 is acknowledged.

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claims 1, 2, 5 and 6 are rejected under 35 U.S.C. 102(e) as being anticipated by PCT Publication WO 97/42462 issued to Martinez-Tovar et al. ("MT"). MT discloses a semiconductor bridge device 10, comprising: a cap 42; a header 44; explosives 36; electrically conductive lead pins 32a/b; an electrically non-conducting substrate 12; an electrically-conducting material deposited on the substrate 14, said material defining a bridge 14c connecting a pair of spaced-apart pads 14a/b; a pair of spaced-apart metallized lands, each land comprising a base layer comprised of titanium, an intermediate layer comprised of titanium and tungsten, and a top layer comprised of tungsten; and, an electrical conductor connected to each of the metallized lands. (Claim 1).

Art Unit: 3641

3. With respect to claim 1, MT discloses applicant's device as described above. (See also, Tovar, figures 3A and 7A).

- 4. With respect to claim 2, MT discloses reactive materials titanium (electrical resistivity =  $40 \times 10^{-8} \Omega$ m) and tungsten (resistivity =  $5 \times 10^{-8} \Omega$ m).
- 5. With respect to claim 5, MT discloses several layers of up to 350 Angstroms and up to 1.2 microns. (Col. 7, II. 61-67 to col. 8, II. 1-6).
- 6. With respect to claim 6, MT discloses an SCB device further comprising an intergrated diode formed by an interface of the insulating material 14 with lands 16a/b.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over MT in view of U.S. Patent No. 4977105 issued to Okamoto et al. ("Okamoto"). MT discloses a semiconductor bridge device as described above. However, MT does not disclose a resistive material comprising boron. However, it is well known in the semiconductor art to use boron as a means of lowering the electrical resistance of a non-metal film layer. (See, Okamota, col. 4, II. 26-56).

Art Unit: 3641

## Allowable Subject Matter

4. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### **Conclusion**

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Troy Chambers whose telephone number is (703) 308-

**Art Unit: 3641** 

5870. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Carone, can be reached at (703) 306-4198.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-4177. The fax phone number for the organization where this application or proceeding is assigned is (703) 306-4195.

SUPERVISON ALL TOTAL